3Com® Wireless 8760 Dual Radio 11a/b/g PoE Access Point

DATA SHEET

Secure, reliable, 108Mbps, PoE, wireless connectivity for small and medium business. This innovative access point provides advanced security features including WPA2, AES and support for multiple SSIDs and VLANs making it a true enter-prise-class solution.

OVERVIEW

The 3Com® Wireless 8760 Dual Radio 11a/b/g PoE Access Point is a cost effective dual band, Power over Ethernet (PoE) wireless solution for enterprises of all sizes. This new wireless product is a fully featured dual radio access point that functions simultaneously with an IEEE 802.11b/g and an IEEE 802.11a radio. With the latest advanced security features such as Wi-Fi Protected Access (WPA/ WPA2), Wired Equivalent Privacy (WEP) and Open system, this access point provides ultra-fast speeds of up to 108 Mbps in turbo. This new access point also provides multiple SSID support and VPN passthrough along with VLAN support.

KEY BENEFITS

ENABLING WIRELESS FREEDOM

Take advantage of the freedom of high-speed networking without wires with the Wi-Fi CERTIFIED 3Com Wireless 8760 Dual Radio 11a/b/g PoE Access Point. WLANs are an attractive solution for cost-effectively and securely extending mobile access to wired network resources or creating full-featured networks in small and medium businesses, remote sites, or temporary locations. Each access point (AP) supports up to 64 wireless users per radio for a total of 128 users, leaving plenty of room for growth.

PROVIDES PoE DEPLOYMENT FLEXIBILITY

PoE support makes it easier than ever to overcome installation problems by eliminating the need for an AC power plug at each AP. The 3Com Baseline Switch 2226-PWR Plus or the Switch 4400/4500/5500 PWR or other 802.3af-compliant PoE products supply both power and data to the access points through Category 5 or 6 Ethernet cable, giving you flexible installation options in hard to wire or reach locations. For con-venience a PoE adapter is supplied with the unit.

KEY BENEFITS (CONTINUED)

SECURES AND PROTECTS WIRELESS COMMUNICATIONS

This new access point delivers enterprise-class security to businesses of all sizes. To shield wireless communications at the source, WPA and WPA2 encryption provide the latest, toughest standards-based security; WEP encryption is also supported. For additional protection, the access point supports 802.1X and MAC address access control, authentication, and authorization through backend RADIUS servers.

PROVIDES FLEXIBLE SECURITY AND ACCESS CONTROL

You can configure and store up to four SSIDs with different security profiles for groups of users. 802.1Q-compliant VLAN support works with the multiple SSID feature to control access to network resources and segment user traffic.

SOLVES COMPLEX CONNECTIVITY PROBLEMS

The Wireless Distribution System bridging feature solves complex wireless connectivity problems. The access point supports both point-to-point and point-to-multipoint WDS links as well as repeater mode for flexible network deployment.

DELIVERS ENTERPRISE-CLASS FEATURES

3Com delivers superior business value by offering enterprise-class solutions without the complexity. 3Com also backs each product with global sales, service, and support along with technology, financial, and operational strength.

FEATURES AND BENEFITS

FLEXIBLE HIGH-SPEED CONNECTIVITY

Dual Radio Support	Supports and offers 802.11a and 802.11b/g radios.
High-speed access	802.11a and 802.11b/g standard supports speeds up to 108Mbps.
Wi-Fi a/b/g CERTIFIED	Helps ensure interoperability with Wi-Fi CERTIFIED products from other vendors.

ROBUST SECURITY FEATURES

Encryption: WPA/WPA2, AES, TKIP and WEP	Toughest industry-standard algorithms help keep wireless transmissions private.
Multiple security profiles	Store up to eight different security settings; up to four security profiles per radio.
Multiple SSID support with SSID isolation	SSIDs can be bridged together or isolated.
Access control	Screens device MAC addresses to ensure that only trusted clients gain access to the WLAN.
802.1Q VLAN support	Groups users according to data or traffic requirements to segment traffic flow based on business priorities.
RADIUS server MAC-based and 802.1X AAA support	Centralizes wireless security through existing network RADIUS servers.

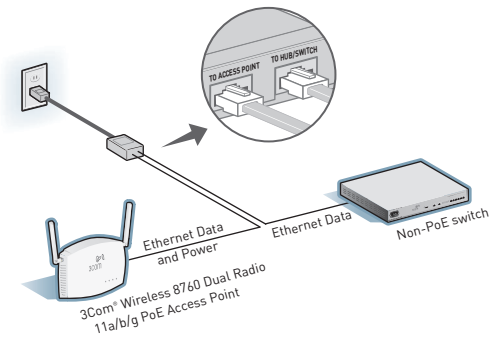
FEATURES AND BENEFITS (CONTINUED)

INSTALLATION AND MANAGEMENT CONVENIENCE

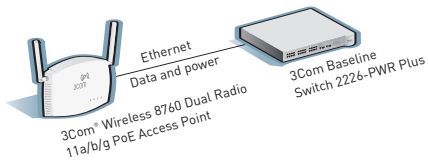
WDS bridge and repeater configuration	Multiple APs can function as bridges supporting point-to-point or multi-point modes; repeater mode extends wireless coverage.
PoE support	Expands installation options by eliminating the need for power adapters and AC outlets for APs.
Access Point Discovery program	Automatically discovers AP devices to simplify configuration and management (PCs with Windows based operating systems only).
SNMP support	Enables the AP to be centrally managed by popular standards-based network management applications such as SNMPv1, SNMPv2c, SNMPv3.
Syslog support	Enables the AP to be centrally monitored by sending data to the network Syslog server.
Web browser-based administration	Familiar browser interface lets you configure and manage APs from anywhere on the network.

PoE Support

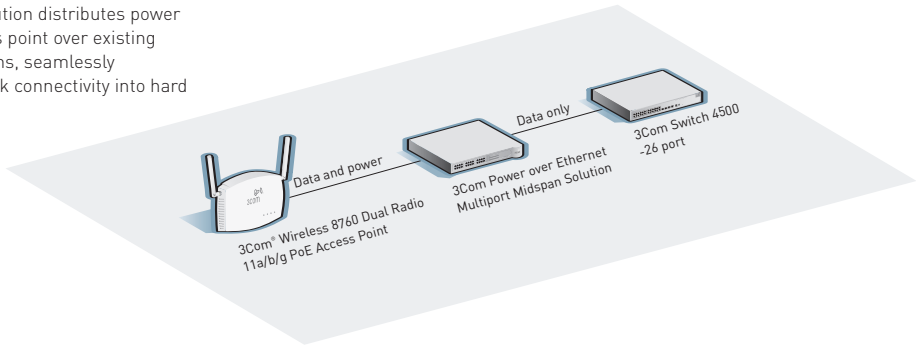
Choose from several power options to match your installation needs. First, the PoE access point can be powered with the supplied PoE injector.



You can also power the access point using an 802.3af-compliant PoE switch. The switch provides both data and power through the Ethernet cable.

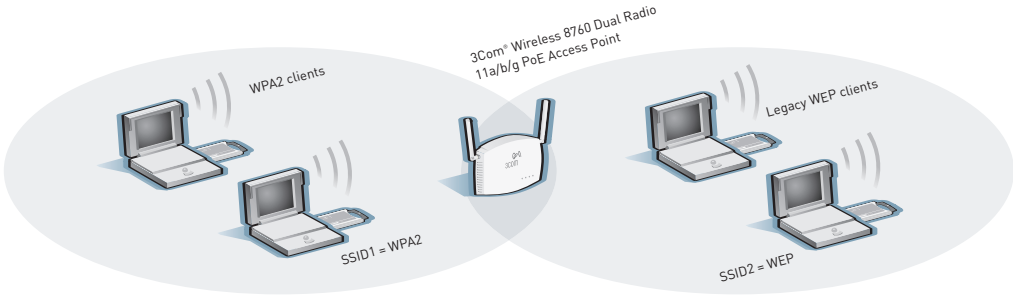


The Midspan solution distributes power to the PoE access point over existing switch connections, seamlessly extending network connectivity into hard to wire locations.



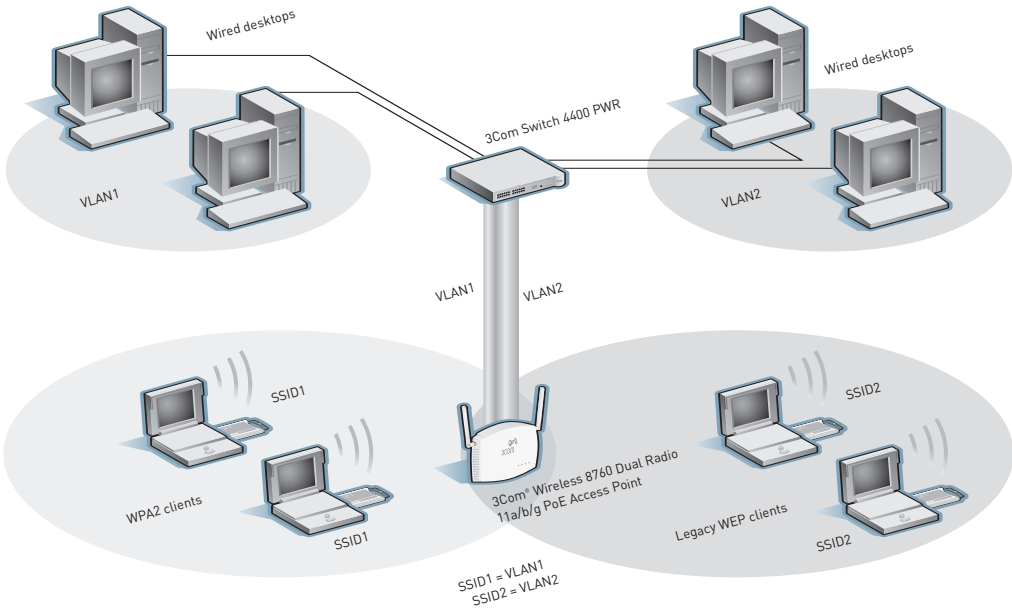
Multiple SSID Support

Multiple SSID support enables many flexible configurations, including supporting multiple client security schemes simultaneously. You no longer need to dumb down your wireless network to support a few legacy WEP devices.



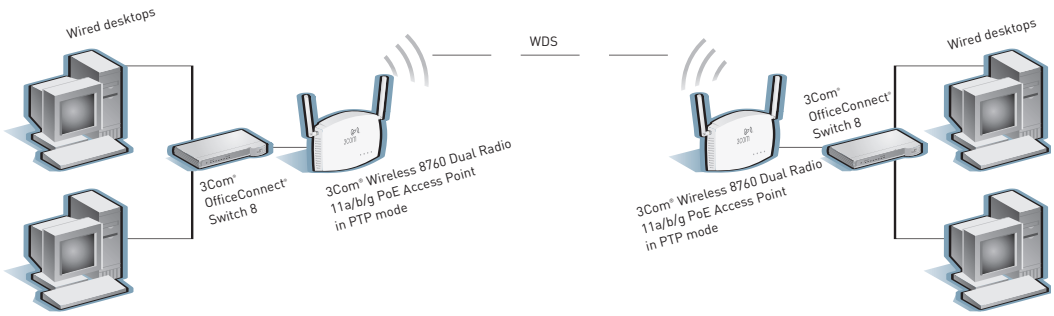
Multiple SSID and VLAN Support

With the 3Com Wireless 8760 Dual Radio 11a/b/g PoE Access Point, a single Ethernet link supports multiple VLAN traffic tunnels.



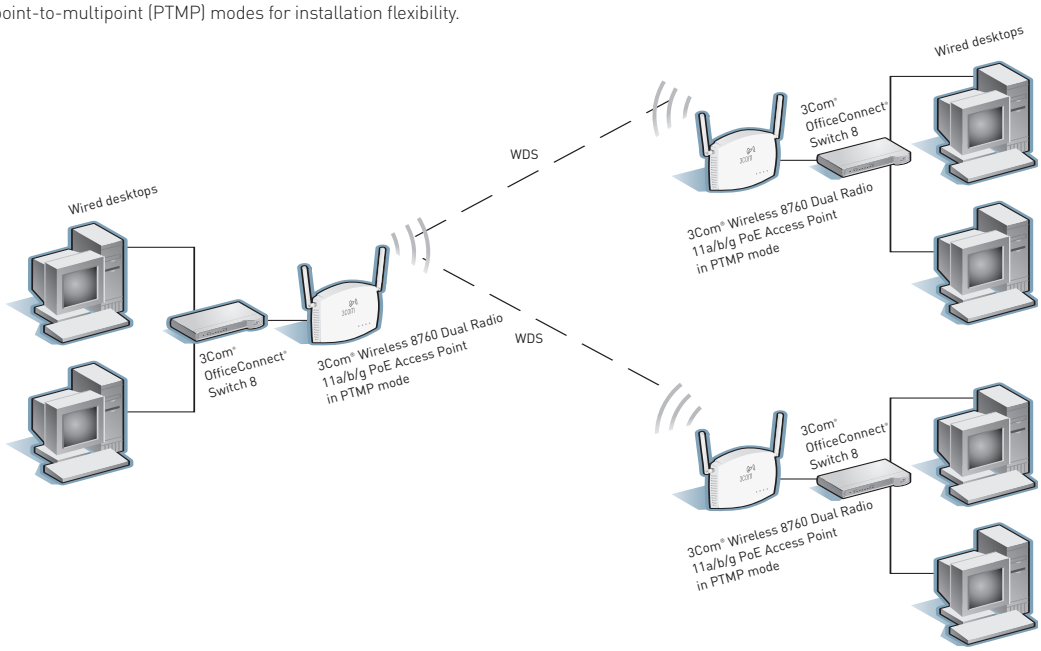
Point-to-Point WDS Link

With the 3Com Wireless 8760 Dual Radio 11a/b/g PoE Access Point, you can connect wired LANs with a wireless WDS link. The APs act as wireless bridges, forwarding traffic between LANs.



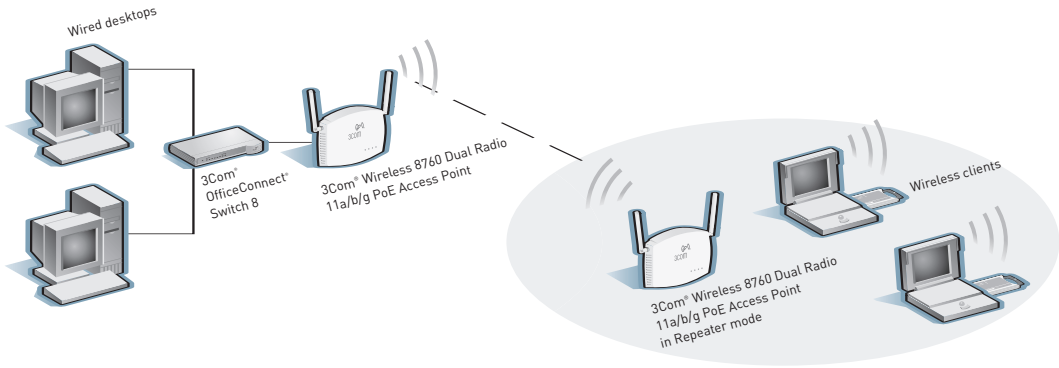
Point-to-Multipoint WDS Link

The 3Com Wireless 8760 Dual Radio 11a/b/g PoE Access Point can function as a wireless bridge in either point-to-point (PTP) or point-to-multipoint (PTMP) modes for installation flexibility.



Wireless Repeater mode

The 3Com Wireless 8760 Dual Radio 11a/b/g PoE Access Point can also extend the range of WLANs by acting as a wireless repeater, forwarding traffic between associated wireless workstations and another AP connected to the wired LAN.



SPECIFICATIONS

MINIMUM SYSTEM REQUIREMENTS

Computer with an Ethernet 10BASE-T, 10/100, or 10/100/1000 interface configured for Internet communication

Operating system that supports an Ethernet connection with an IP stack (Installation CD Discovery Application requires Windows XP, or Windows 2000)

PCs and laptops require 802.11a or 802.11b/g adapter cards for wireless access

MEDIA INTERFACES

RJ-45, IEEE 802.11a, 802.11b, 802.11g

One 10BASE-T/100BASE-TX IEEE 802.3af-compatible PoE port with auto-negotiation

DATA RATES

802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps

802.11b,g: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps

802.11a/g turbo mode: 108, 96, 72 Mbps

FREQUENCY BAND

802.11a: 5 GHz; 802.11b/g: 2.4 GHz

USERS SUPPORTED

Up to 64 simultaneous 802.11b/g wireless users per radio for a total of 128

OPERATING RANGE

802.11a: up to 50 meters (164 feet) transmit and receive

802.11b/g: up to 100 meters (328 feet) transmit and receive

Unobstructed range maximum: 457 meters (1,499 feet)

OPERATING CHANNELS:

Channel availability depends on local country regulations. Wireless LAN system administrator must choose correct country of operation. Channels are then automatically configured to comply with specified country's regulations.

MODULATION TECHNIQUE

DSSS (Direct Sequence Spread Spectrum)

OFDM (Orthogonal Frequency Division Multiplexing)

MEDIA ACCESS PROTOCOL

CSMA/CA

POWER CONSUMPTION

7.2 watts of PoE power with both radio's active

SPECIFICATIONS
(CONTINUED)

TRANSMIT POWER SETTINGS
Based on the regulatory domain set by the system administrator, not to exceed the following:

802.11a
6 Mbps: ≥+18 dBm
9 Mbps: ≥+18 dBm
12 Mbps: ≥+18 dBm
18 Mbps: ≥+18 dBm
24 Mbps: ≥+18 dBm
36 Mbps: ≥+18 dBm
48 Mbps: ≥+16 dBm
54 Mbps: ≥+16 dBm

802.11b/g
1–11 Mbps: ≥+18 dBm
12 Mbps: ≥+18 dBm
18 Mbps: ≥+18 dBm
24 Mbps: ≥+18 dBm
36 Mbps: ≥+18 dBm
48 Mbps: ≥+16 dBm
54 Mbps: ≥+16 dBm

RECEIVE SENSITIVITY
802.11a
6 Mbps: ≤-87 dBm
9 Mbps: ≤-86 dBm
12 Mbps: ≤-84 dBm
18 Mbps: ≤-82 dBm
24 Mbps: ≤-79 dBm
36 Mbps: ≤-75 dBm
48 Mbps: ≤-72 dBm
54 Mbps: ≤-71 dBm

802.11b/g
1 Mbps: ≤-95 dBm
2 Mbps: ≤-92 dBm
5.5 Mbps: ≤-91dBm
6 Mbps: ≤-89 dBm
9 Mbps: ≤-88 dBm
11 Mbps: ≤-88 dBm
12 Mbps: ≤-86 dBm
18 Mbps: ≤-84 dBm
24 Mbps: ≤-81 dBm
36 Mbps: ≤-77 dBm
48 Mbps: ≤-73 dBm
54 Mbps: ≤-72 dBm

STANDARDS CONFORMANCE
IEEE 802.11a, 802.11b, 802.11g, 802.11i, 802.3, 802.3af, 802.1X; WEP, AES, WPA, WPA2, WMM, and Wi-Fi CERTIFIED

ANTENNA
2 removable 2dB gain antennas with R-SMA connector

SECURITY
WPA2 AES and TKIP encryption; 64/128/152-bit WEP encryption; 802.1X with EAP-TLS, EAP-TTLS, and PEAP; WPA-PSK authentication; MAC address authentication and filtering; 802.1Q VLAN; multiple SSID; RADIUS client authentication, authorization, and accounting

NETWORKING PROTOCOLS
TCP/IP, Bridging Protocol, DHCP, HTTP, HTTPS, SSH, Telnet

PERFORMANCE
Dynamic rate shifting
Packet bursting
Clear channel connect
802.11a/b/g SuperG mode

MANAGEMENT
SNMP v1, v2c and v3 support
Remote management with Web browser over SSL or HTTPS; command line interface over SSH v2 or Telnet

LEDS
Power, 10/100 Mbps, 802.11b/g activity, or 11g activity

DIMENSIONS AND WEIGHT
Height: 15.9 cm (6.25 in)
Width: 21.91 cm (8.625 in)
Depth: 4.13 cm (1.625 in)
Weight: 544.31 g (1.2 lb)

REGULATORY/AGENCY APPROVALS
Safety
UL/CSA 60950-1
EN/IEC 60950-1
NOM-019- SCFI

EMC/EMI
FCC 15 Subpart C
IC RSS-210
EN 300 328
EN 301 893
EN 301 489-1, -17

ENVIRONMENTAL RANGES
Operating temperature: -10 to 40°C (14 to 122°F)
Storage temperature: -40 to 70°C (-40 to 158°F)
Humidity: 10 to 95% non-condensing

PACKAGE CONTENTS
3Com Wireless 8760 Dual Radio 11a/b/g PoE Access Point
Two external dual-band 2.4/5.15GHz antennas with R-SMA connectors
Mounting hardware
PoE injector (3CNJPSE)
1.6 m CAT5 cable
Quick Installation Guide
Support and Safety sheet
Warranty sheet
Product range sheet
CD with Discovery application and documentation

WARRANTY AND OTHER SERVICES
Three-year hardware warranty. Advanced hardware replacement and 90 days free technical support. Refer to **www.3com.com/warranty** for details.

ORDERING INFORMATION

PRODUCT DESCRIPTION	MODEL NO	3COM SKU
3Com Wireless 8760 Dual Radio 11a/b/g PoE Access Point	WL-546	3CRWE876075
Managed Wireless LAN Access Point Antenna Options		
3Com 6/8dBi Dual-Band Omni Antenna		3CWE591
3Com 3/4dBi Dual-Band Ceiling Mount Antenna		3CWE592
3Com 18/20dBi Dua- Band Panel Antenna		3CWE596
3Com 4/6dBi Dual-Band Hallway Antenna		3CWE597
3Com 8/10dBi Dual-Band Panel Antenna		3CWE598
Antenna Cables		
3Com Ultra Low Loss 6 Foot Antenna Cable		3CWE580
3Com Ultra Low Loss 20-Foot Antenna Cable		3CWE581
3Com Ultra Low Loss 50-Foot Antenna Cable		3CWE582
3Com RSMA to SMA 6" Antenna Cable		3CWE586
3Com Wireless LAN-Related Products		
3Com Power over Ethernet Single-Port Midspan Solution		3CNJPSE
3Com Power over Ethernet Multiport Midspan Solution (24 Ports)		3CNJPSE24
3Com Switch 5500-EI PWR 28-port		3C17171-91
3Com Switch 5500-EI PWR 52-port		3C17172-91
3Com Switch 4400 PWR		3C17205
3Com Baseline Switch 2226-PWR Plus		3C16490
3Com OfficeConnect® Managed Switch 9		3CR16708-91
PC Cards with XJACK® Antennas		
3Com Wireless 11a/b/g PC Card with XJACK® (108 Mbps)		3CRPAG175B
3Com OfficeConnect Wireless 108 Mbps 11g XJACK® PC Card		3CRXJK10075
PC Cards with Fixed Antennas		
3Com OfficeConnect Wireless 54 Mbps 11g PC Card		3CRGPC10075
USB Adapters		
3Com OfficeConnect Wireless 108 Mbps 11g USB Adapter (Swivel Base)		3CRUSB20075
3Com OfficeConnect Wireless 54 Mbps 11g Compact USB Adapter		3CRUSB10075
PCI Adapter		
3Com Wireless 11a/b/g LAN PCI Card (108 Mbps)		3CRDAG675B
3Com Global Services		
3Com Wireless LAN Site Survey, Network Health Check, Installation Services, and Express℠ Maintenance		www.3com.com/services_quote
3Com University Courses		www.3com.com/3comu

For additional information, please visit www.3com.com

Visit www.3com.com for more information about 3Com secure converged network solutions.

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